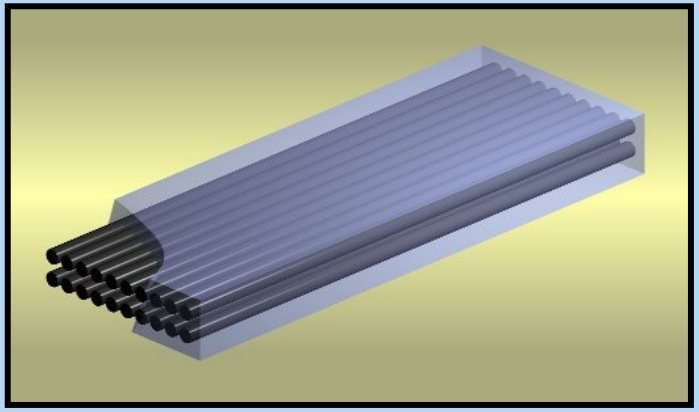
PIANC RecCom Working Group 15

The Use of Alternative Materials in Marine Structure Construction

By Terence M. Browne, P.E.

Presentation Overview

- WG Members and Others
- Background and History
- January 2008 Draft
- Collaboration Activities
- Completion Schedule
- Questions and Answers



WG Members and Others

WORKING GROUP:

Mr. Terence Browne – Chairperson (USA)

- Mr. Elio Ciralli – Vice Chairperson (Italy)
- Mr. Masao Yamada – Secretary (Japan)
- Mr. John Pyman – Corresponding Member (UK)
- Mr. Mark Kloos – Corresponding Member (South Africa)
- Mr. Steven Desloovere – Corresponding Member (Belgium)

OTHERS:

- Ms. Elizabeth Burkhart – Contributing Author
- Ms. Heather Malone – Contributing Author
- Experts From ACI, ASTM, PLTA, ACMA, and Composites World

Background and History

- Brussels Meeting
- Meetings in London, UK
- Meetings in USA
- Italy Meeting

Traditional Materials

Timber

Masonry

Steel

Concrete

Four Alternative Material Applications

- Structural shapes
- Non-metallic reinforcements
- Repair and strengthening elements
- Hybrid structural elements and systems

January 2008 Draft

- Introduction and Background
- Overview of Alternative Materials
- General Information on Thermoplastics
- General Information on Fiber Reinforced Polymers
- Conclusions and Recommendations
- Case Studies and Summary of Projects
- Appendices (Terminology, Resources, References)

Collaboration Activities

- **Outside of PIANC**
  - Composites World
  - ACMA
  - ASTM
  - ACI
- **Inside of PIANC**
  - InCom, MarCom, EnviCom

Proposed Completion Schedule

- August 2008 – Teleconference Coordination
- September 2008 – Draft Finalized by WG15
- October 2008 - Submitted to RecCom

?? QUESTIONS For WG15 ??